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Conventional Facilities - Machine Advisory Committee Review

NLC Conventional Facilities Overview

V. Kuchler May 11, 2002



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Conventional Facilities Topics

- Address Previous MAC Report
- CF Goals for FY'02
- CF Progress in FY'02
- Fermi Work for FY'02
- SLAC Work for FY'02
- CA 135/127 Site Progress
- Underground Advisory Board



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Address Previous MAC Report

- "Full integration of CF personnel into the Eight Pack Test Program"
- "Configuration Management"
- "CF Groups...continued work on sites in CA and IL"
- "A cost spreadsheet for CF is necessary to compare sites"



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CF Goals for FY'02

- Enter Cost Data and Produce and Accurate and Consistent Cost Comparison of All Design Solutions (3-IL, 2-CA)
- Identify Specific Areas of Design Solutions for Further Investigation
- Proceed with Geologic Characterization of CA Sites
- Provide Support for NLCTA and ETF as Needed
- Continue UAB and Supporting Consultant Studies
- Contribute to Project Scheduling Effort
- Participate in the TESLA TDR Study



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CF Progress in FY'02

- General Effort is Toward the Completion of Initial Design Solutions for the Identified Five Sites
- IL Efforts are Focused on Cost Estimate Format and the Beginning of Formal Project Scheduling
- CA Efforts are Focused on Further Investigation of CA Sites and Support of NLCTA 8 Pack
- Initial Environmental Investigation May Begin Toward the End of the Year
- Underground Advisory Board Remains in Place but Has Not Been Expanded as Planned



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Outlook for FY'03

- Complete Design Solution for CA 127 Site
- Using Cost Estimate Data, Identify Specific Areas of Design Solutions for Further Study
- Continue UAB, CA Geologic Investigation and Support Studies as Resources Allow
- Continue to Work with the Ground Motion Group to Establish Realistic Design Parameters
- Continue Project Scheduling Efforts
- Continue Preliminary Environmental Investigation
- Complete CF Information Base to Provide Enough Data for Next Level of Site Selection



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Personnel Adjustments

- Many Thanks to John Cogan and Tim Burke for Their Dedication to the NLC Effort
- J. Sevilla and F. Assiri are Supporting the 8-Pack Effort almost Excusively
- Mel Magnuson has Joined the IL Team and will Concentrate Primarily on Project Scheduling
- The CA Team Hopes to add an Environmental Person as Well as a Replacement for John Cogan as Time and Resources Allow



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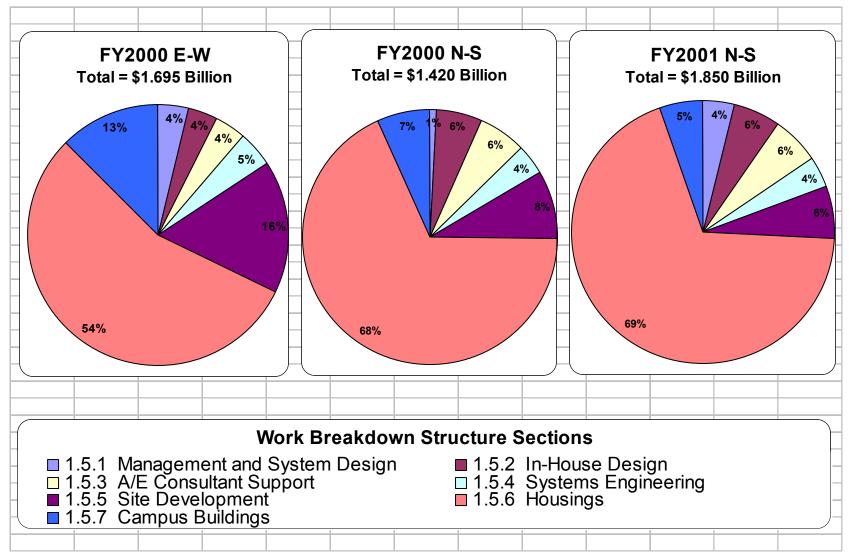
The Formatted Cost Estimate

- Review of Data for Content is the First Step
- Factual Review of Data Will Follow
- Cost Drivers and Areas for Further Study Can Be Readily Identified
- It is a Tool that Helps to Establish Configuration Management for Conventional Facilities
- Any Adjustments will be Documented so that Comparisons to the Established Baselines are Valid



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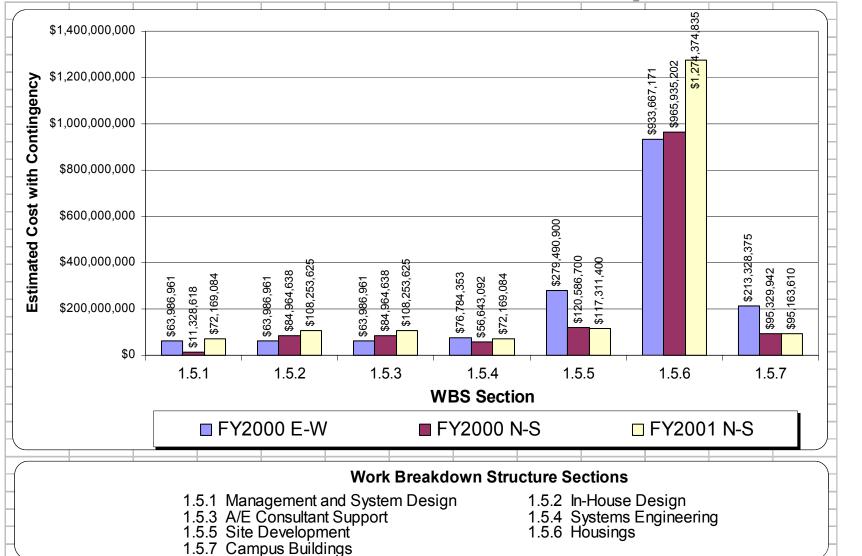
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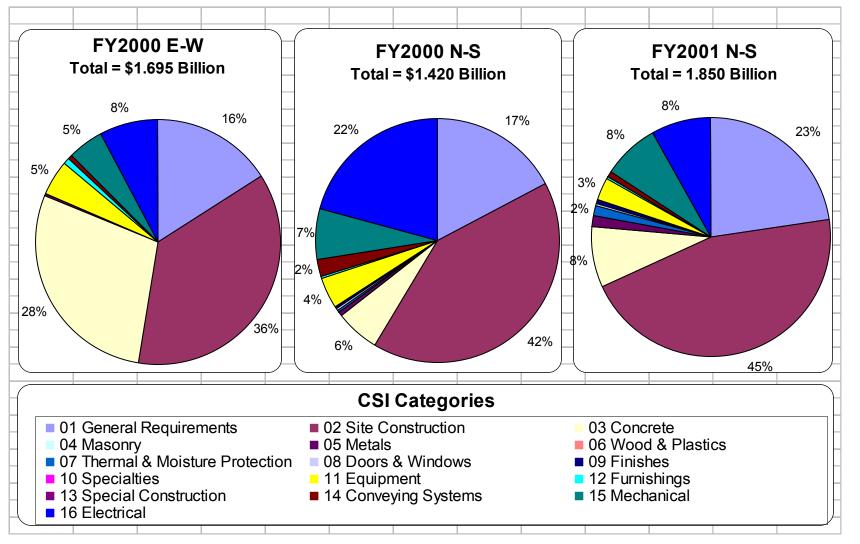
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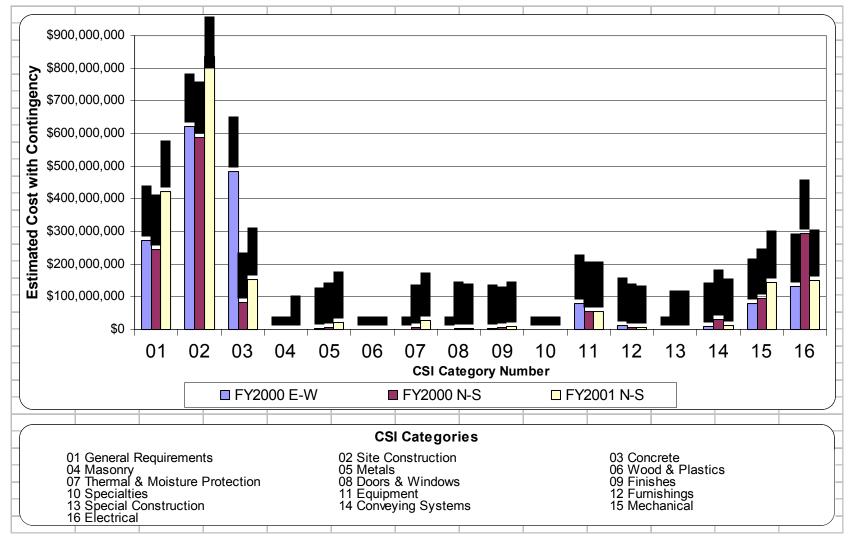
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Questions Still Remain

- Preparation for CDR will be Dependent on Site Selection Process
 - 1. Number of Sites
 - 2. Environmental Issues
 - 3. Construction Techniques
 - 4. Variations in Cost and Schedule
- An Understanding of the Impact of Global Collaboration is Necessary in All Areas
- Many Issues and Variables will Affect the Direction of CF Work



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In Conclusion

- The CF Group Continues to Provide Consistent Effort in Support of the NLC R&D Plan
- We have a Clear Path of Action that will Take Us Through FY'03
- Direction with Regard to the Sequence of Events that will Lead to a CDR will be Necessary to Develop a Plan for Future CF Work

There is Still Much Work to do